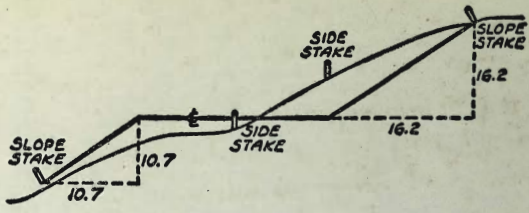


G-405



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

DIRECTIONS FOR USE OF TABLE



TABLE NO. XIV

Distance of slope stake from side or shoulder
stake for any width roadway, slope 1 1/2 to 1.
If ground is nearly level the cut or fill at the
table is found by the double rule.

IMPROVED TABLES
AND
INFORMATION

cut target. If it does not strike the slight ad-
justment necessary.

TABLE NO. VIII

To find Tangent Length for curve of
any other degree, divide by degree of curve and
the correction found in column of corrections.
Degree of curve with a given L may be found
by dividing tangent (external) opposite L by
given tangent (external).
The distance from a point on the tangent to
the curve is very nearly the square of the tangent
length divided by twice the radius.

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.03	.06	.09	.13	.16	.19	.22	.25	.28	.31	.34	.38	.42	.46
15°	.04	.10	.14	.19	.24	.29	.34	.39	.45	.51	.53	.58	.63	.68
20°	.06	.13	.19	.26	.32	.39	.45	.51	.58	.65	.72	.79	.84	.90
25°	.08	.16	.24	.33	.40	.49	.58	.67	.75	.83	.90	.99	1.06	1.14
30°	.10	.19	.29	.39	.49	.59	.69	.79	.89	.99	1.09	1.20	1.29	1.39
35°	.11	.22	.34	.47	.58	.69	.79	.81	.92	1.04	1.29	1.42	1.54	1.66
40°	.13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	.15	.30	.44	.60	.76	.91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	.17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	.19	.38	.57	.76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	.21	.42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	.23	.46	.69	.93	1.16	1.40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	.25	.51	.76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	.30	.61	.91	1.22	1.53	1.84	2.15	2.46	2.78	3.10	3.44	3.78	4.12	4.46
85°	.33	.66	1.00	1.33	1.68	2.02	2.36	2.70	3.05	3.40	3.77	4.14	4.55	4.89
90°	.36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32
95°	.39	.79	1.19	1.55	2.00	2.40	2.80	3.20	3.61	4.02	4.40	4.98	5.38	5.83
100°	.43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	.51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4.76	5.31	5.86	6.43	7.01	7.60
120°	.62	1.25	1.93	2.52	3.16	3.81	4.45	5.11	5.77	6.44	7.12	7.80	8.50	9.22

FOR EXTERNALS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.029	.032	.035	.039	.043	.047	.051
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	.036	.046	.056	.065	.074	.083	.093	.106	.120	.127	.135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.771	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.286	.383	.480	.578	.678	.777	.877	.977	1.07	1.18	1.29	1.39
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.885	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

INDEX:

ENCANTO SEM'S:
(M.O. 33043)

- BIDWAY: (ESMT, W'LY) 1
- KLAUBER: Bidway N'LY 3
- ESMT: N'LY/RADIO DR + W'LY OF 60th } 7
 (M.H 53
 = 26 + 0.90 } to CITY BDRY
- 60th L: (RADIO DR M.H #56 N'LY TO WEAVER)
 + WEAVER (60th ST, NE'LY) TO D-END } 10
- BURIAN: RADIO-DR, N'LY TO D-END (M.H #90) 14
- WINNETT: RADIO-DR N'LY TO D-END 16
- WINNETT: RADIO-DR S'LY 18
- ATTIX: RADIO-DR, S'LY 20
- BITTERN: 21
- WREN: ESMT M.H #158 N'LY TO SCIMITAR 22
- SPRINGFIELD: WINNETT, E'LY 24
- " : ESMT M.H #126, W'LY 25
- " : " " #126, E'LY 26
- " : ESMT M.H #139, W'LY 27
- " : " " #139, E'LY 28
- ESMT: M.H 66-A (STA 63 + 14.80) RADIO DR TO M.H #139 SPRINGFIELD 29

INDEX: (CONT.)

ORIOLE: SPRINGFIELD, NLY	33
SWAN: ESMIT M.H. #130, NLY	35
" ESMIT " " " SLY	35
ESMIT: M.H. #97 RADIO DR, SLY to } M.H. #96 et AL	36
ESMIT: M.H. #68-RADIO DR, SLY to } M.H. #94, et AL	38
ESMIT: M.H. #145, WINNETT ELY to Plug } end	40
ESMIT: M.H. #70, RADIO DR. NLY to M.H. #139 } SPRINGFIELD	42
" M.H. #123, WLY to M.H. #122	43
" M.H. #123, ELY to Plug-end	44
SPARROW - + ESMIT N'WLY to D-END	45
FEDERAL Blvd: EXIST CANYON MAIN } ELY to Plug-END	46
60th ST. (FED. Blvd, SLY) + EGRET	50
FULMAR: 60th ELY	53
ESMIT: M.H. #80-A-B (2+69.16 60th) } to M.H. #83-A-B WEAVER	55
WEAVER ST: M.H. #83-A-B (7+28.62 } ESMIT) 45' SLY & 60' NLY	57

INDEX (CONT.)

TITLE	Pg.
BURIAN: 60th, ELY to Plug-end	58
60th: ESMIT M.H. #7 SLY to plug-end	59
ESMIT Sew: M.H. #7, (60th) ELY	61
ESMIT Sew: M.H. #8 NLY to UPLAND } DIPPER & 60th, etc }	63
60th ST: M.H. #11 (& Dipper) NLY to } M.H. #13 (& Tooley)	66
TOOLEY ST: M.H. #13 (& 60th) ELY to Plug- } end	67
DIPPER ST: M.H. #11 (& 60th) ELY to } M.H. #17 (WEAVER)	69
UPLAND ST: M.H. #9 (& Upland + ESMIT) } ELY to plug-end	70
WEAVER: M.H. #17 (& DIPPER) SLY } to M.H. #20	71
WEAVER: M.H. #17 (& Dipper) NLY to } Plug-end	74
REPUBLIC: M.H. #21 (& WEAVER) ELY to } plug-end	75

ENCANTO SEWERS

W.O. 33043

CLARK
STEFFENS
ABRENIHA
ANDERSON

BRDWAY: (ES mt; W'ly)
(4+50 to 9+50)

9-23-60
W.O. 33043

6+50

9.66%

314.95
307.33
C 7.62

6+00

310.46
302.50
C 7.96

5+50

(NAILS & CHAINS
5' x 70' / 5' x 70')

306.30
297.67
C 8.63

5+00

303.38
292.83
C 10.55

Note: At conts: request
offsets changed to 8' + 16' RT at 90° E ~~ESMT.~~

4+50 Brdway = Drop m.H #164
(= 4+96.64 N'ly - S'ly
ESMT)

299.94 299.94
288.00 W'ly 273.80 N'ly
C 11.94 C 26.14

NAILS 7.07' & 15' RT on
Split A (W'ly quad)

299.94
273.30 S'ly
C 26.64

ORIG. T. B.M.

301.19 = EAK m.H #164

Set TOM = P.K. MAIL file # 685871-H = 301.02
564 Broadway + E'ly of ESMT.

Brdwy (CONT.)

2

CHR:

332.80 = 332.85 - 96 + 7.63 + 11
+ Brdwy

9+50 = D.END
(P109)

341.29
326.80
C 14.49

9+00

337.50
324.35
C 13.15

4902

8+50

333.00
321.90
C 11.10

↓

8+00

328.48
319.45
C 9.03

7+50 = M.H #171

323.94
317.00
C 6.94

7+00

319.43
312.17
C 7.26

KLAUBER: Broadway N.Y.

STA: CLK:

335.35 = NEELY 16'
CLK - TIE TO
E L+T WREN
& KLAUBER

STA:

3+03.50 = M.H. #151

38.21
330.37
C 7.84

6+00

61.21
355.02
C 6.19

2+50

33.80
326.52
C 7.28

5+50

58.22
350.86
C 7.36

2+00

(3 STA'S 5' 20")
7' 19" ↓

30.00
322.93
C 7.07

5+00

8' 31" 3/8 ↓

54.89
346.70
C 8.19

1+50

26.33
319.33
C 7.00

4+50

50.77
342.55
C 8.22

1+15.5 = CONNECT
EXIST.

323.72
316.85 (DWG)
C 6.87

4+00

46.50
338.39
C 8.11

NOTE: 0+00 = EXIST M.H.
256.56 SWLY OF E WREN

3+50

42.27
334.24
C 8.03

T.B.M.

314.16 = L+T & KLAUBER
E 63' Ld (P.I.)

KLAUBER (CONT.)

CHK:

STA:

371.29 = NEELY CLK - 16' tie

ELFT SPARROW &
KLAUBER

STA:

11+00

79.97
370.56
C 9.41

8+50

70.12
362.33
C 7.79

10+50

77.84
368.83
C 9.01

8+00

69.08
360.95
C 8.13

10+00

75.67
367.11
C 8.56

7+50

67.72
359.56
C 8.16

9+50

73.39
365.38
C 8.01

7+00

66.05
358.18
C 7.87

9+10 = M.H #153

71.68
364.00
C 7.68

6+50

63.85
356.79
C 7.06

9+00

71.30
363.72
C 7.58

6+07 = M.H #152

61.63
355.60
C 6.03

E-7728

S-458

KLAUBER (CONT.)

CHK:

384.58 = 26' chx tie (w/ly)
to P.I. (2 m.H)
12+14.38

STA:

STA:

13+00

88.79
381.42
C 7.37

16+00

12.39
402.76
C 9.63

75.5%

15+50

408.00
399.42
C 8.58

6.68%

12+50

86.07
377.67
C 8.40

15+00

403.81
396.08
C 7.73

Note: Δ LT = 60° 43'

CONT. Tang. Sew

47.57' ahead

to D-END & BITTER N = 375.48 elev
C 8.88

84.36

84.75 (IN)
375.00 to N 1/4
C 9.75

14+55 = M.H # 155

400.25
393.07
C 7.18

RT

5

5

5

5

5

5

5

12+14.38 = M.H # 154

(diff elev. 54. n/ly)

84.75 (OUT)
374.50 to S 1/4
C 10.25

14+00

395.80
388.93
C 6.87

12+00

84.39
374.01
C 10.38

31.25%

13+50

92.10
385.18
C 6.92

11+50

82.20
372.28
C 9.92

KLAUBER (CONT.)

STA:

18+00

25.81
409.61
C 16.20

CHK:

PK
428.95 = NAIL Pole TP171024
APPROX. STA 17+40 RT

(17+69 = Beg CONC. BK-FILL)

17+65

24.16
409.47
C 14.69

(19+07.81 = SET = P.O.T. of Klauber)

17+51.5 = Chmnj LT.

OHG

17+30

22.12
409.33
C 12.79

18+96.47 = D.END

= end CONC. BK-FILL

28.85
410.00
18.85

16+96.47 = M.P. #156
Δ = 29° 03' RT
Set CKX 5-16' + 15' RT
ON SPLIT

19.86
409.20
C 10.66

18+70

28.14
409.89
C 18.25

16+50

16.40
406.10
C 10.30

18+35

27.08
409.75
C 17.33

W.O. 33043
10-6-60

CLARK
WILLIAMS
ABRENILLA
ANDERSON

E'smt Sew: # M.H. 53 = STA:
26+09.9 RADIO DN, N'ly to
CITY BDRY

Ref: 6342-D: Profile
6328-D

7

1+15.35 =

18.08
205.78
C 12.30

3+55.35

22.25
214.86
C 7.39

0+75.35 E

6' LT E
3.035
↓
Stubs

17.73
204.57
C 13.16

3+05.35

16.99
211.72
C 5.27

0+35.35

14.74
203.36
C 11.38

2+55.35

15.49
210.14
C 5.35

216.93 = TP

2+05.35

14.84
208.57
C 6.27

0+00 =

out 201.79 20229 IN

M.H. #53

C 10.61 C 10.11

A = 18° 01' 14" RT

= STA: 26+09.9

RADIO DN,

(note: RADIO DN Sew. 0+00 to 60+th Staked by C.H.S.)

T.B.M

209.64 = 50' ELY

1+55.35 = M.H. #1
Stubs 6.08 + 15 LT E
ON SPILT

16.48
207.00
C 9.48

RIP M.H. #53 (city notes: by C.H.S.)

ESMT (CONT.)

7+55.35

33.59
223.71
C 9.88

9+55.35

4.576

41.24
232.57
C 8.67

6+55.35

32.33
222.29
C 10.04

9+05.35

40.76
230.28
C 10.48

2.8576

6+05.35

31.35
220.86
C 10.49

A = 1° 12' 00" LT

38.83
228.00
C 10.83

8+55.35 = M.H. #3

Stubs 6' 415' LT E
on split

5+55.35

29.65
219.43
C 10.22

A = 15° 54' RT

8+05.35

36.27
226.57
C 9.70

5+05.35 = M.H. #2
Stubs set 6.06'
4 15' 2Tg m.H.
on split

28.40 = TP
218.00
C 10.40

4+55.35

26.03
216.43
C 9.60

7+55.35

34.61
225.14
C 9.41

ESMT (CONT.)
NLY RADIO Dr - WLY 60th

CHK: 255.77 = 255.55 = |X| =
50' WLY R.P.
STA: 11+06.86
G.B. 399-48

(to 60th } grade BOOK 399-48
7- 0+00 ESMT ahead }
±
11+06.86 = Connect.
to EXIST. Sew.
@ City BDRY C C 9.19 ±

10+55.35 46.30
237.14
C 9.16

4.57%

10+05.35 44.07
234.85
C 9.22

CLARK
WILLIAMS
ABRAHAM
ANDERSON
10-10-60

M.H 56 (RADIO DR. 32+32.92)
N'ly ON 60th + ELY, WEAVER
TO D-END

REF: 6322-D
DWG: 6344-D
6348-D

WEAVER: (CONT.)
60th, N'ly

10

STA:

2+14.16

22.575g

289.17
274.92
C 14.25

1+64.16

←

76.95
263.67
C 13.28

4+14.16

302.15
295.98
C 6.17

P.O.T.
1+31.89 = M.H # 88

267.61
256.40
C 11.21

3+64.16

99.51
292.88
C 6.69

RT
6.20g
Stubs 6' RT

1+00

Stubs 6 RT

25.476g

58.52
248.28
C 10.24

3+14.16

98.10
289.78
C 8.32

0+50

45.59
235.54
C 10.05

A = 49° 20' RT

295.53
286.68 IN
C 8.85

0+00 60th to
WEAVER =
= M.H # 56 RADIO
(STA: 32+32.92)
(Set by C.H.S.)

222.80

-2+64.16 = M.H # 26

Stubs 6.60' + 15' RT
(ON SPLIT Δ)

295.53
286.18 OUT
C 9.35

T.B.M.

228.55 = Chk

N'ly end, Ely h/wall - Current 60th + RADIO DR.

WEAYER (60th NEly to D. END)

CONT.

CHK:

328.35 = Nail Pole
P-370422

STA:

note 2 PMS cut stubs to here

7+00

2.8945

18.36
310.86
C 7.50

$\Delta = 26^{\circ} 30' 31''$ LT.

6+50

↓

15.72
309.42
C 6.30

9+22.24 = M.H. #24
stubs set 6.16' RT + 15' RT
- on split -

22.91
317.30 = F.L.
C 5.61

P.O.T

6+14.16 = M.H. #25
stubs 6' 15' RT E

14.26
308.38 = F.L.
C 5.88

9+00

22.56
316.65
C 5.91

5+64.16

6.22

11.80
305.28
C 6.52

8+50

2.8945

22.01
315.20
C 6.81

5+14.16

↓

308.67
302.18
C 6.49

8+00

22.05
313.75
C 8.30

4+64.16

305.29
299.08
C 6.21

7+50

320.13
312.31
C 7.82

WEAVER (60' to NE 1/4)
Cont.

12

349.23 = 349.22 = Wly 63' chx
tie to Prop. EC.

CHK:

STA:

11+50

32.50
325.00
C7.50

14+00

43.98
336.02
C7.96

11+00

30.93
323.12
C7.81

13+50

40.60
333.13
C7.47

$\Delta = 27^\circ 11' 41''$ LT.

$\Delta = 18^\circ 01' 55''$ RT.

- 10+70.35 = M.H #23
stubs 6.17' + 15' RT
ON SPLIT.

29.73
322.00 = F.L.
C7.73

- 13+20.09 = M.H #22
stubs 6.08' + 15' RT
ON SPLIT

39.18
331.40 = F.L.
C7.78

10+50

28.75
321.35
C7.40

13+00

38.02
330.65
C7.37

10+00

26.20
319.76
C6.44

12+50

35.83
328.76
C7.07

9+50

323.95
318.18
C5.77

12+00

33.97
326.88
C7.09

WEAVER (NELY 60' to
to D-end) (cont.)

CHK:

16750

61.87
352.74
C 9.13

16+00

00

726

59.54
349.11
C 10.43

15+50

55.63
345.48
C 10.15

A = 8° 13' 52" LT

53.60
344.00 (IN)
C 9.60

- 15+29.59 = M.H. #21

53.60
343.50 (OUT)
C 10.10

(= 0+06 Republic)

Stubs 6.02' + 15' RT
on split

cut - sheets turned in

note: = end Sewer; WEAVER (60' to NELY)
(to D-END)

15+00

50.88
341.80
C 9.08

14+50

46.97
338.91
C 8.06

16+94.87 = D-END

Stub 6' RT

62.53
356.00
C 6.53

10-17-60

BURIAN: (RADIO-DR
NEW to M.H.#90)REF: (6322-D
26351-D)

14

STA:			STA:	
0+52 = E.V.C.		82.52 267.40 C15.12	3+50	10.06 303.36 C6.70
0+42		81.74 266.47 C15.27	3+00	05.29 296.62 C8.67
0+32	3 stubs 6' RT	80.90 265.77 C15.13	2+50	300.25 289.88 C10.37
0+22		80.30 265.12 C15.18	A=39°52' RT 2+22.72 = M.H.#89 stubs 6.38 & 15' RT ON SPLIT A	97.69 286.20 C11.49
0+12		79.75 264.70 C15.05	2+00	95.76 283.68 C12.08
0+00 BURIAN = M.H.#60 (= 44+53.65 RADIO-DR) (See cut-sheets C.H.S)		264.40 (in) 263.90 (out)	1+50	91.39 278.18 C13.21
			1+00	86.73 272.68 C14.05

13.48%

11.01%

T.B.M

280.42 = P.K. NAIL 2 1/8" SLIP R.P. to M.H. 60 & E RADIO-DR.
Pole # 178289

cut-Shells turned in

Note: = end BURIAN (RADIO-DR N'ly)

4+66.07 = m.H # 90
Stubs 6'+15' RT &

325.65
319.00 = F.L
C 6.65

4+50

22.97
316.84
C 6.13

4+00

15.91
310.10
C 5.81

10-24-60

WINNETT:
(RADIO-DM, NLY to D-END)

REF: DWG: { 6338-D
6355-D

@ #1644 WINNETT 10
chk con porch

325.56 = 81' SWLY

STA:

STA: *chk*

P.O.T.

4+18.19 = M.H #147

(= 0+00 SPRINGFIELD, ELY
Stubs 6' x 12' RT

(IN) 23.25 323.08
314.50 314.50 F.L.
C 8.75 C 8.58

(OUT) 23.25 323.08
314.00 314.00 F.L.
C 9.25 C 9.08

K'ed by
contractor

2+00

307.71
301.26
C 6.45

1+50

304.75
299.37
C 7.38

4+00

21.44
312.95
C 8.49

1+00

302.00
293.48
C 8.52

3+50

17.17
310.08
C 7.09

0+50

99.85
289.59
C 10.26

3+00

314.11
307.20
C 6.91

2+50

310.78
304.32
C 6.46

0+00 = M.H 65

(= STA: 59+22.76 Ahd
RADIO DM

285.70 (in) *WINNETT*

$\Delta = 3^{\circ} 15.6'$ LT.

(See cut sheet # 11
RADIO-DM)

285.20 (out)

2+09.62 = M.H #146

Stubs 6' x 12' RT. ON SPLIT

308.30
302.00 F.L.
C 6.30

T.B.M

297.26 = ch. walk 72'

SELY @ RADIO-DM + WINNETT

7.7769
Stubs on nails 6' RT &

5.7538

WINNETT (CONT.)
RADIO-DP, N 1/4

STA:

7403.69 = Chimney, RT.

7+00

43.87 43.87
330.53 322.98
C1334 10.74

6+50

40.10 40.10
327.68 329.66
C1242 C10.44

6+00

36.54 36.54
324.84 326.39
C11.70 C10.15

5+50

33.10 33.10
322.00 323.12
C11.10 C9.98

5+00

29.43 29.43
319.15 319.85
C10.28 C9.58

4+50

25.90 25.90
316.30 316.58
C9.60 C9.32

Adjusted Grade
From SMH #147 to #148
5.6862
6.5438

STA:

10+00

66.33
354.00
C12.33 C9.33

9+50

63.31
349.77
C13.54 C10.54

9+25.69 = Chimney RT.

9+00

60.59
345.55
C15.04 C12.04

8+50

56.50
341.32
C15.18 C12.18

8+14.69 = chimney on RT.

8+00

52.01
337.09
C14.92 C11.92

P.O.T.

7+68.19 = m.H #148

49.52
332.40
C12.12
49.52
334.40 F.L.
C15.12

7+50

47.92 47.92
333.36 336.20
C14.56 C11.72

WINNETT (cont.)
RADIO-DR, N'ly

STA:	CHK:	714.50 = 414.57 = NEBP WINNETT & Tooley
12+08.29 = Plug-end		84.75 373.76 F.L. C10.99 C7.99
12+00	10.83	83.84 372.86 C10.98 C7.98
11+50		78.47 367.44 C11.03 C8.03
P.O.T.		
11+18.19 = M.H #149		75.63 367.00 F.L. C11.63 C8.63
11+00		74.11 362.46 C11.65 C8.65
10+50		69.99 358.23 C11.76 C8.76
10+36.69 = Chippy RT.		

WINNETT:
RADIO DR.

18

S'ly

Ref: DWG: 6324-D
6355-D

STA:	304.79 298.56 C6.23
1+71.06	
1+61.06 = B.V.C	303.22 297.62 C5.60
1+50	301.97 296.80 C5.17
1+00	97.91 293.00 C4.91
0+50	297.42 289.40 C8.02
0+00 = M.H #65 (see pg. 16) RADIO-DR.	285.70 (IN)
T.B.M. (See Pg 16)	= 297.26

740
↓
Stubs 6' RT

WINNETT (Cont.)
(RADIO Dr - S'ly)

T.B.M - 317.71 = MAIL Pole #170380 19
ST. STA 2+37 WINNETT (RT.)

STA:		
3+00	23.4952	30.50 322.97 C 7.53
2+60		21.81 313.57 C 8.24
$\Delta = 2^{\circ} 54' 29''$ RT.		
2+43.09 = M.H stubs 6' 12' RT	#145 18.39 Tp.M.H. 317.60 C 0.79 TP	318.39 309.60 C 8.79
2+01.06 = E.V.C.	16.932	310.10 302.49 C 7.61
1+91.06	stubs 6' RT E	308.19 300.99 C 7.20
1+81.06		306.64 299.68 C 6.96

STA:		
5+00		77.75 366.32 C 11.43
4+60	20.06 \$	69.27 358.30 C 10.97
4+20		59.79 350.28 C 9.51
	P.O.T	
3+93.76 = M.H #144	53.36 352.90 = TP M.H C 0.46	345.00 = F.L C 8.36
3+80		50.02 341.97 C 8.25
3+40		30.06 322.37 C 7.69

WINNETT (CONT.)
(RADIO-DR, S'ly)

STA:

CHK:

395.85 = P.K. NAIL Pole

#652478-H
Approx 80' I-SELY
SE CORN WINNETT +
SCIMITAR

90.31
377.00 (IN)
C13.31

See also: SCIMITAR

(MAP STA.)
M.H. lays 1' S'ly of map loc. For closure
SCIMITAR

6+35.07 = M.H. #115

stubs 6'412' RT
@ 90°

90.31
390.20 = TP m.H.
C0.11

390.31
376.50 (out)
C13.81

1+50

1+00

Stubs 6' RT (unmade)
8.6420

61.17
349.00
C12.17

54.64
345.97
C8.67

46.04
341.64
C4.40

42.34
337.32
C5.02

5+89.41

make this
= (mid-pt. bet. m.H. S)

1.06

88.24
376.04
C12.20

0+50

85.64
375.59 (IN)
C10.05

0+00 = M.H. #71

(= 76+82.22 RADIO-DR)

333.00

5+43.76 = M.H. #143

(Stubs 5'410' @ 90° to
EIDER ON RT
EIDER Sew. E)

85.64
386.00 = TP m.H.
P0.36

85.64
375.09 (OUT.)
C10.55

T.B.M.

352.66 = SPIKE Pole #
P170360, S'ly
OF NW CORN RADIO RT + PARADISE

ATTIX:

20

(RADIO-DR S'ly)

STA:

T.B.M. = 346.53 = 30' N'ly chx Tie to ATTIX
& RADIO-DRIVE

BITTERN ST.
(EXISTING SEWER NWly)
(Staked by C.S.)

1+28.75 = Plug-End
78.92
370.00 →
C 8.92

378.92
359.00
C 19.92

Note: house on Ely
Bittern at 1+28.75
(Sew stop)

1+00
77.65
366.79 →
C 10.86

77.65
358.51
C 19.14

Connection to
house: EXIST
outlet approx 99'
RT. of E ST.
F.L. Elev. EXIST outlet
= 362.90

0+50
75.86
361.19 →
14.67

75.56
357.66
C 17.90

Elev. of plug-end
= 359.00 = Fall
of 3.9' to E ST.

0+43
END CONC. BACKFILL

See opp. pg.
Sew. covered by order of office
to meet house @ 1+28.75 Bittern

1.7293

0+12.50 = M.H. # 157
74.50
356.99 →
17.51

(OK) 74.50
356.99
C 17.51

= M.H. # 157

0+00
MEET EXISTING
SEWER
BEGIN CONC. BACKFILL
73.94
356.90 →
C 17.04

(OK) 373.94
356.90
C 17.04

~~M.H. # 157~~
= EXIST Plug-end Sew:

WREN: Esmt m.H #158, N 1/4
to SCIMITAR

Ref. DWG: 6333-34-D
6356-D-D

22

STA:

GRADE

STA.

Grade

0+60.29 = E.V.C

313.77
304.10
C 9.67

3+50

5464
344.84
C 9.80

0+50.29

312.21
302.23
C 9.98

3+00

5298
343.92
C 9.06

0+40.29

310.95
300.52
C 10.43

2+50 = m.H #159
P.O.T
Stub 5' RT

4898
343.00
C 5.98

0+30.29

309.85
298.98
C 10.87

2+00

41.52
332.74
C 8.78

0+20.29 = B.V.C

308.98
297.62
C 11.36

1+50

32.06
322.49
C 9.57

0+00 = m.H #158
= Esmt 5+50.14
(See Book 406 - Pg 14)

308.12
294.70 (out.)
C 13.42

308.12
295.20 (in.)
C 12.92 men

1+00

21.35
312.24
C 9.11

T.B.M

304.93 = W 1/4 2x2 R.P.
to Esmt & WREN

20.505-9

Stub 5' RT

1.8468
Beg stubs
6.178

20.505-9

T.B.M = 352.64 = 40.74' chx Tie (LT) to EBC 6+76.35
ST. STA

WREN (CONT.)

STA:

GRADE:

6+00

65.18
357.40
C 7.18

5+50

60.98
353.50
C 7.48

5+00

57.91
349.60
C 8.31

4+66.64 = M.H #160
A: 47° 12' 16" RT
Stubs 6.55' + 12' LT

56.72
347.00
C 9.72

4+50

56.59
346.69
C 9.90

4+00

55.99
345.77
C 10.22

T.B.M = 419.63 = chd w/ly end BIR-WALL 23

ST. STA: 31404.40 SCIMITAR

T.B.M = 413.90 = Nail Pole # JPI73817 @ SE Cor Wren +
SCIMITAR ON RT.

(end Wren Sew.)

8+76.32 = M.H #162

95.76
386.00
C 9.76

8+50

91.57
383.05
C 8.52

8+00

85.72
377.43
C 8.29

7+50

80.41
371.81
C 8.60

7+00

75.33
366.19
C 9.14

6+71.64 = M.H #161
A: 19° 57' 40" RT
Stubs 6.09' + 12' LT

72.51
363.00
C 9.51

6+50

70.39
361.31
C 9.08

780.58

Stubs 6' LT

11237.8

Stubs 6' LT

1846.8

SPRINGFIELD:
WINNETT, ELY

STA:	GRADE		
0+50=E.V.C	26.76 320.28 C6.48		
0+40	25.20 318.74 C6.46		
0+30	24.12 317.39 C6.73		
0+20	23.32 316.23 C7.09	Stub-end 1493.35 = M.H. #133 Stubs 6' 412' RT	51.25 345.20 C6.05
0+10	322.73 315.27 C7.46	1450	45.45 337.67 C7.78
0+00 = M.H. #147 = (4+18.19 WINNETT See pg 16)	23.08 314.50 (in) C8.58	1400	36.37 328.97 C7.40
T.B.M.	325.56 = 81' SW 1/4 R.P. Chx ON COR. LDC (@1644 SPRINGFIELD)		

3
27
9
Stubs
(Upgrades)
5965

17.386

SPRINGFIELD:

ESMT M.H #126, W'ly

STA:		GRADE
1+00	← 12.62 8 stubs 6' RT (cup grade)	40.50 331.48 C 9.02
0+75		38.00 328.33 C 9.67
0+48.65 = M.H #135 (= 0+00, ORIOLE) stubs set 8.48' + 15' OFF M.H ON SPLIT (NEW QUAD)	# 135 35.64 324.50 (out) C 11.14	35.64 325.00 (IN) C 10.64
0+24.32	← 7.25 2 (K'od by Cont)	34.70 322.25 C 12.45
0+00 = M.H #126 (= 4+72.25 ESMT) stubs set 6.96' + 12' RT. ON SPLIT (SELY QUAD)		ESMT #126 34.29 319.50 (out) C 14.79
<u>T.B.M.</u>		336.59 = CHD SELY CON CON Perch @ #6409 SPRINGFIELD (NEW CORNER)

= end
2+42 = M.H #134

2+00

1+50

← 12.62 8
stubs 6' RT
(cup grade)53.36
349.40
C 5.9653.22
344.10
C 9.1247.61
337.79
C 9.82

SPRINGFIELD:
ESMT M.H. #126, Ely

STA:	GRADE
0+45.75	36.15 323.36 C12.79
0+35.75	35.55 322.10 C13.45
0+25.75	34.83 321.13 C13.70
0+15.75	34.42 320.45 C13.97
0+05.75	34.31 320.06 C14.25
0+00 = M.H. #126 (See pg 25)	
<u>T.B.M.</u>	336.59 (see pg 25)

(K'ed by const.)
 Stubs 6' RT (upgrade)

STA:	GRADE
2+00	59.82 351.93 C7.89
1+65.75 = M.H. #136 P.O.T. Stubs 6' 4 1/2' RT	53.93 348.10 C5.83
1+50	50.92 344.74 C6.18
1+00	42.20 334.06 C8.14
0+65.75 = E.V.C	37.86 326.76 C11.10
0+55.75	36.90 324.91 C11.99

11.1768
 21.348
 Stubs 6' RT (upgrade)

(K'ed by const.)

SPRINGFIELD: MH 126, Ely (CONT.)

STA:	GRADE:
4+18.85 = Plug end	97.43 384.59 C12.84
4+00	94.36 380.82 C13.54
3+96.60 = chimney LT.	
3+50	85.24 370.82 C14.42
A = 21° 43' 30" LT.	
3+25.91 = M.H. #137 Stubs 6.11' + 12' RT on split	80.80 366.00 C14.80
3+00	76.33 363.11 C13.22
2+50	68.13 357.52 C10.61

do.
p
↓
Stubs 6' RT (on up grade)

SPRINGFIELD: ESMT M.H. #139, Wily ²⁷

STA:	GRADE:
2+27.33 = M.H. #138	404.17 398.40 C5.77
2+00	404.11 396.81 C7.30
1+50	400.52 393.91 C6.61
1+00	397.05 391.00 C6.05
0+50	94.96 388.10 C6.86
0+00 = ESMT M.H. #139 (4+17.8 ESMT) Stubs 8.48' + 15' RT on split (SELY QUAD)	97.19 384.70 (out) C12.49
	97.19 385.20 (in) C11.99

578079
↓
Stubs 6' RT (on up grade)

T.B.M

405.60 = NAIL & DISC Pole #
578863 @ SELLY
SWAN + SPRINGFIELD

SPRINGFIELD: ESMT M.H. #139 ELY

T.B.M = 391.55 = Bolt in Spill-TP Fdn, NE Corn unfinished Bldg, S. Side Springfield & W. Ly ESMT

STA:

GRADE

1+73.29

23.94
416.16
C 7.78

1+63.29=B.V.C

22.08
414.60
C 7.48

1+50

19.73
412.20
C 7.53

1+00

410.30
403.20
C 7.10

0+50

402.10.
394.20
C 7.90

0+00=ESMT M.H. #139 (see pg 27)

385.20 (in)

T.B.M (see pg 27)

STA:

GRADE

2+73.29 = Beg. (60' of Con. BK. FILL)

2+50 = M.H. #140 p.o.T.

2+23.29 = E.V.C

2+13.29

2+03.29

1+93.29

1+83.29

34.50
420.57
C 13.93

31.64
420.30
C 11.34

30.35
419.96
C 10.39

28.78
419.37
C 9.41

27.21
418.54
C 8.67

25.51
417.47
C 8.04

Stubs 6' RT (up grade) 18 2

Stubs 6' RT (up grade)

Springfield: ESMT M.H. #139, Ely (cont.)

ESMT: M.H. 66-A (STA: 63+14.80) ²⁹
RADIO DR, N'LY to Springfield
M.H. #139 N'LY to Swan. M.H. #130

STA:

GRADE

CHK:

T.B.M 430.46 = ch \square
NWly Cor Conc. Ldg'
Side door by 94'
@ 6569 Springfield
(SEly Corn)

A = 20° 48' RT

EQ: $\left. \begin{array}{l} +23.19 \text{ Abd} \\ +09.96 \text{ BK} \end{array} \right\} = \text{M.H. 125-A}$
Stubs 6.17' + 12' RT
on split

08 78
302.62
C 6.16

1+00

08 53
302.28
C 6.25

3+57.05 = Plug-end

34.77
421.00
C 13.77

0+50

06.83
300.55
C 6.28

(3+33.29 end conc-BK-Fill)

3+25

36.03
420.87
C 15.16

3,456' RT (upgrade)
Stubs 6' RT

3+00

36.35
420.77
C 15.58

0+00 = M.H. 66-A

298.32 (out) 298.82 (in)

2+75

35.91
420.67
C 15.24

T.B.M

297.26 = ch \square CONC.
WALK, (SEly corner
- House, RADIO DR & WINNETT)

0.496'
Stubs 6' RT

ESMT: M.H 66-A (63+14.80 RADIO DR
NLY to SWAN (CONT.)

STA:

GRADES:

ESMT, NLY M.H #125
to M.H #125-B

30

STA:

GRADES:

Note: M.H #125 = 0+00 ESMT wly to m.H #125-B
See opposite pg →

(CONT. Pg 31)

Δ = 2° 15' 19" RT.

2+72.02 = M.H #125

(Stubs 6' + 12' RT
on split)

2+50

Stubs 6' RT
41.54 B

2+00

Stubs 6' RT

1+50

17.08
308.80
C 8.28

15.08
307.89
C 7.19

12.37
305.81
C 6.56

09.52
303.73
C 5.79

(Stub end wly)
2+17.11 = m.H 125-B

2+00

1+50

1+00

0+50

0+00
= M.H 125

(= 2+72.02
NLY ESMT
See opp. pg.)

40.95
332.00
C 8.95

40.90
330.18
C 10.72

38.17
327.83
C 13.34

30.47
319.49
C 10.98

21.33
314.44
C 6.89

17.08
308.80
C 8.28

← 10.69%
Stubs 6' LT (54)
3 E (Upgrade)

ESMT (M.H. 66.A RADIO DR. N 44° to
M.H. #130 SWAN (CONT))

STA:	GRADES
4+72.25 = M.H. #126 (= 0+00 EAST + WEST) Springfield See Pg 26+25 Stubs 6.96' + 12' RT S.E. QUAD Springfield Sewer	34.29 319.50 (cont) C 14.79 34.29 320.00 (I.N.) C 14.29
4+50	34.37 318.30 C 16.07
4+00	22.46 315.63 C 6.83
3+50	20.44 312.96 C 7.48
3+00	19.22 310.29 C 8.93

5.3449
STUBS 6' RT

CONT. FROM M.H. #125 (2+12.02)
See Pg 30-41.

CHK: T.B.M. = 336.59 = CH. 1 SE'ly CORN 31
CONC. PORCH @ #6404 Springfield

STA:	GRADES
7+00	31.99 326.41 C 5.58
6+60 = M.H. #127 P.O.T. STUBS 6' LT.	31.45 323.70 C 8.05
6+50	31.31 323.21 C 8.10
6+00	29.87 322.31 C 7.56
5+50	29.70 321.40 C 8.30
5+00	33.33 320.50 C 12.83

-7.5300

1.8100
STUBS 6' LT

ESMT: M.H 66-A RADIO DR. N¹/₄
to m.h #130 SWAN (CONT.)

STA:	GRADE:
9+30	51.68 340.83 C10.85
8+80	49.40 338.79 C10.61
8+45.98 = M.H #128	46.61 337.40 C9.21
8+00	42.14 333.94 C8.20
7+50	34.99 330.17 4.82

STA:	GRADES:
11+75	60.30 355.63 C4.67
11+25	56.64 351.07 C5.57
EQ { 10+80.37 A.H'd } = M.H #129	56.27 347.00 C9.27
10+30	51.99 344.92 C7.07
9+80	52.22 342.88 C9.34

3902
50'
3902
A = 7° 38' 45" RT
Stubs 6.01 + 10' RT

Stubs 5.99
5.27
5' LT E

9.12 2
Stubs 6' RT
44.63
A = 5° 29' 38" LT
Stubs 6.01 + 10' RTE

4.093 2
Stubs 6' LT

EASMT: M.H. 66-A RADIO DR. N^WLY
to M.H. #130 - SWAN (CONT.)

STA:

GRADE

CHK: = 378.06 = 80' NWLY 2x2 tie
to S SWAN (M.H. #130)

12+72.25 = M.H. #130
(= 0+00 SWAN
sewer
see pg 35)

75.06
364.50 (out)
C 10.56

365.00 (in)

12+25

70.85
360.19
C 10.66

ORIOLE

33

STA:

GRADE

2+50 = M.H. #141

62.44
355.00
C 7.44

2+00

55.15
349.00
C 6.15

1+50

48.86
343.00
C 5.86

1+00

42.88
337.00
5.88

0+50

37.72
331.00
6.72

0+00 = M.H. #135
= 0+48.65 SPRINGFIELD
(see pg 25)

35.64
324.50 (out)
C 11.14

35.64
325.00 (in)
C 10.64

T.B.M 336.59 = SE chd CONC. porch @ 6404
SPRINGFIELD

12
98
5 studs 5' 11" BTB up grade

Ref (6338-D)
(6356-E-D)

ORIOLE: (CONT.)

(T.O.M. =

34

447.31 = PK MAIL Pk

by C.N.S

J-P 27074

STA 5+48 LT

STA:

grades:

STA:

GRADE:

3+10

75.26
365.31
C 9.95

5+41.20 = Plug-end

47.13
430.00
C 17.13

3+00

72.77
363.03
C 9.74

5+00 = M.H. 7142

27.91
446.76
C 11.15

← 32.142

2+90

70.36
360.98
C 9.38

4+50

413.92
403.16
C 10.76

2+80

68.05
359.15
C 8.90

4+00

400.01
389.56
C 10.45

← 27.202

2+70

66.02
357.54
C 8.78

3+50

386.10
375.96
C 10.14

2+60

64.16
356.16
C 8.00

3+20 = E.V.C

77.77
367.80
C 9.97

SWAN: ESMT m.H #130, NWly

SWAN: ESMT m.H #130, S'ly

STA:

GRADES

T.B.M. = 378.06 = 80' NWly 2x2 Tie to
E SWAN (m.H #130)

= end Sew.

1+40.17 = M.H 150
P.O.T.

92.95
383.20
C9.75

1+00

85.33
377.98
C7.35

0+50

78.63
371.49
C7.14

0+00

= M.H #130
Stubs 6'4 1/2' RT @ 90°
E SWAN
(See pg 33)

75.06
367.50 (out)
C10.56

75.06
365.00 (in)
C10.06

T. B. M.

405.60 = NAIL-DISC
Pole # 578863 @
(SEBY) SPRINGFIELD + SWAN)

STA:

GRADES:

2+25

6.76 2.2

82.16
375.40
C6.76

1+75

33.57

78.55
372.02
C6.53

1+41.43 = M.H #131
P.O.T.

76.40
369.75
C6.65

1+00

74.73
368.36
C6.37

0+50

3.36 2

74.02
366.68
C7.34

0+00 = M.H #130
(See opp. pg)

365.00

12.98 4 2
5x stubs 6' RT (upgrade)

3.36 2
5x stubs 6' RT (upgrade)

SMW:SLY (CONT)

ESMNT SEW: M.H #97 36
RADIO-DR, SLY to M.H #96, et al

STA:

GRADES:

STA:

GRADES:

REF 6337-D
6356-ITD

0+97.80

26.27
320.22
C6.05

0+87.80

26.11
319.58
C6.53

0+77.80

26.12
319.13
C6.99

= end Sew

3+93.57 = M.H #132

92.81
386.80
C6.01

0+67.80 = B.V.C

25.96
318.89
C7.07

3+75

91.72
385.54
C6.18

0+33.90

26.18
318.69
C7.49

3+25

88.88
382.16
C6.72

0+00 = M.H. #97
71403.14 RADIO DR.

318.00 (OUT) 318.50 (IN)

2+75

85.54
378.78
C6.76

6.762

0.572

STUDS 6.87

ESMT: M.H. 97 RADIO-DI, S₄, et al
to m.H. #96 #95 (Cont.)

STA:

GRADES:

2+95.22

42.54
337.25
C 5.29

2+85.22 = B.V.C

42.09
336.86
C 5.23

Δ = 90° RT (to m.H. #95)

2+42.80 = M.H. #96
Stubs 8.48 + 15' on
split (NW quad)

40.74
335.50 (in) C 5.24
40.74
335.00 (out) C 5.74

2+00

10.32 88
Stubs 6' RT

36.82
330.58
C 6.24

1+50

31.29
325.42
C 5.87

1+07.80 = E.V.C

27.14
321.06
C 6.08

STA:
(see Pg 38 - For E/Ly Leg.)

= why end

4+74.59 = M.H. #95
stubs 6' + 12' RT

GRADES:

53.65
349.28
C 4.37

4+25

51.77
345.85
C 5.92

3+75

47.29
342.38
C 4.91

3+25.22 = E.V.C

43.76
338.89
C 4.87

3+15.22

43.47
338.27
C 5.20

3+05.22

42.95
337.72
C 5.23

6+95.5 88
Stubs 6' RT

(CONT.)
 ESMT: M.H 97 RADIO-DR, S'ly et al
 (M.H 96, Ely to END)
 STA: grades:

T.B.M. chks

355.50 = 355.47 = ch. TP n'ly end
 Lower Conc. step
 (N'ly Side House) AT
 1435 orig. ESMT
 notes p 236

= Ely end
 1+30 = Plug-end

59.68
 344.60
 C 15.08

1+00

55.48
 342.50
 12.98

0+50

347.16
 339.00
 C 8.16

0+00 = M.H #96
 (see pg 37)

335.50 (IN)

2-3-61

ESMT SEW: M.H #68 RADIO DR ³⁸

STA: 67+64.80, S'ly to M.H #94, et al

STA:

GRADES:

1+12.80

13.88
 309.27
 C 4.61

1+02.80

13.12
 308.57
 C 4.55

0+92.80

12.68
 308.09
 C 4.59

0+82.80 = B.V.C

12.78
 307.83
 C 4.95

0+41.40

317.59
 307.67
 C 9.92

0+00 = M.H #68

307.00 (OUT) 307.50 (IN)

STA: 67+64.80
 RADIO DR. (EXIST. THIS DATE)

T.B.M.

297.26 = ch. newly corr.
 CONC. WALK, house @ S'ly RADIO-DR. + WINNETT

Ref: DWG 6337-D
 6356-ID

21.9 sq ft

0.40

 ESMT: M.H 68-RADIO DR
 S'ly to m.H #94 +
 w'ly to Plug-end' (CONT)

(See opp pg to Ely)
 = w'ly end

2+92.80 = Plug-end

344.27
 338.40
 C 5.87

$\Delta = 90^\circ$ RT (to Plug-end)
 w'ly

2+42.80 = M.H #94
 Stubs 8.48 + 15 RT
 on split (NW quad)

33.79
 329.00 (IN) 33.79
 C 4.79 328.50 (OUT)
 C 5.29

1+92.80

8
 18
 5

27.11
 320.59
 C 6.52

1+42.80 = E.V.C

17.97
 312.69
 C 5.28

1+32.80

16.55
 311.33
 C 5.22

1+22.80

3 14.96
 310.19
 C 4.77

(CONT) 39
 ESMT: M.H #68-RADIO-DR, S'ly
 (M.H #94 to Ely)

STA:

GRADES:

= Ely end

1+33 = Plug-end

50.80
 342.17
 C 8.63

1+00

45.79
 338.90
 C 6.89

0+50

8
 9
 0
 5

336.93
 333.75
 C 2.98

M.H #94
 (see opp. pg)

329.00 (IN)

ESMT SEW:

M.H. #145 WINNETT ELY to
PLUG-END = 6+80.91

T.B.M =

361.82 = NAIL CORN. 40
Fence Post @ 2+31-LT.

STA:

GRADE

STA:

GRADE

2+00

59.43
345.64
C1379

3+75

59.60
351.91
C6.69

1+50

51.76
336.63
C15.13

3+50

59.88
351.77
C8.11

1+00

38.12
327.62
C10.50

3+00

62.25
351.49
C10.76

0+50

29.36
318.61
C10.75

2+75

63.21
351.35
C11.86

0+00 = M.H. #145
= STA 2+43.09
WINNETT SEW:
(See Pg 19)

C 0.8 TP
M.H.

318.39
309.60
8.79

P.O.T
2+30.26 = M.H. #92
stubs 8'+14' RT
@ 90°

361.04
351.10
C9.94

T.B.M

317.71 = NAIL Pole #170380
Sew. STA 2+37, WINNETT
(w/ly side ST.)

18.023 @
Stubs 8' RT & (upgrade)

0.56 @

ESMT: M.H. #145 Winnett Ely (Cont.)

41

STA:	GRADE	STA:	GRADE
6+00	69.08 358.10 C10.98	chk	297.23 - 297.26 = chd conc- walk, house SE'ly WINNETT + RADIO - Drs
5+50	68.61 355.75 C12.86		
5+00	64.94 353.40 C11.54		
P.O.T. 4+80.91 = M.H. #93 stubs 8' & 14' RT @ 90°	62.77 352.50 C10.27		
4+50	60.22 352.33 C7.89	6+80.91 = plug-end stubs 8' & 15' RT	66.89 361.90 C4.98
4+25	58.75 352.19 C6.56	6+50	69.58 360.45 C9.53
4+00	359.47 352.05 C7.42		

ESMT: M.H #70 (Radio-Dr)

Ref: #6325-D
6352-D

42

Nly to M.H #139 (Springfield)

STA:

GRADES

STA:

GRADES:

2+42.80 = M.H #123
Stubs set 8.48' + 15'
on split (SE. Quad)

66.52
359.60 (in.)
C 6.92

66.52
359.10 (out)
C 7.42

T.B.M

391.55 = Bolt,
TP Sill, NE. Corner FDN
UNFINISHED Bldg. SLY
Springfield + Wly ESMT

2+00

61.46
353.97
C 7.49

1+50

54.50
347.97
C 6.53

4+17.80 = M.H #139
Stubs set 8.48' + 15'
on split (SE. Quad)
(on RT.)
(See pg 27)

384.70 (out)

1+00
Stub 6' LT.

11.9852
Stubs 6' RT E
w/ 15' noted

44.51
341.98
C 2.59

3+75

3
LT, 6
RT E

86.29
378.55
C 7.74

0+50
Stub 6' LT

↓

42.50
335.99
C 6.51

3+25

14.548
Stubs
↓

77.88
371.37
C 6.51

0+00 = M.H #70
(Radio-Dr
Sta: 74+37.14)

330.00 (in)

2+75

71.11
364.20
C 6.91

T.B.M.

346.53 = 30' Nly ch x tie to E Radio Dr
+ EATTIX

ESMT (CONT.) m.H #123, W/L
to m.H #122

43

STA:

GRADE:

STA:

GRADE:

0+98

65.93
361.08
C4.85

0+88

64.94
360.65
C4.29

2+25 = M.H 122

73.46
369.40
C4.06

0+78

65.24
360.34
C4.90

5' STUBS 5' LT.

0+68 = B.V.C

64.88
360.14
C4.74

2+00

73.43
367.74
C5.69

5' STUBS 5' LT.

6.64 20

0+34

65.66
359.87
C5.79

0.80 20

1+50

70.61
364.42
C6.19

M.H #123
(see pg 42)

359.60 (IN)

1+08 = E.V.C

66.74
361.63
C5.11

T.B.M.

391.55 (see T.B.M. TP RT. Pg 42)

ESMT: (CONT.) M.H. # 123,
Ely to plug-end

STA: 2+12 = M.H. # 124
P.O.T
(stub 5' RT)

GRADE:
91.91
388.50
C 3.41

STA: GRADE:

2+00 90.68
386.86
C 3.82

1+50 85.41
380.04
C 5.37

12682
↓
Stubs 6' RT. E
unless noted.

1+00 78.41
373.23
C 5.18

3+10 = Plug-end

96.74
393.00
C 3.74

0+50 71.19
366.41
C 4.78

3+00 4.57%
↓

96.93
392.54
C 4.37

0+00 = M.H. # 123
(See Pg 42)

359.60 (in)

2+50
Stub 5' RT

94.62
390.24
C 4.38

T.B.M

391.55 (See Pg 43)

SPARROW - + ESMT N'Wly to

REF: DWG'S: { 6334-D
6356-H-D

45

D-END

STAI

GRADE

STAI

GRADE:

2+00

66.48
357.88
C 8.60

4+00

66.75
363.85
C 290

1+50

63.43
354.26
C 9.17

3+50

67.29
363.35
C 3.94

7.24 0
STUBS 6' RT.

1.08
↓

1+00

59.57
350.64
C 8.93

3+00

73.30
362.85
C 10.45

0+50

55.79
347.02
C 8.77

A = 43° 58' LT

79.08
362.49
C 16.59

2+63.74 = M.H. #175

STUBS 6.47 + 12' RT
ON SPLIT.

(See Book 406 - Pg. 15)

0+00 = M.H. #174 (OUT) 352.51 (IN) 352.51
C 9.61 C 9.11

(= 11480.60 ESMT)

STUBS 8.48' + 15'
RT (S.E. QUAD)

T.B.M. 352.26 = { 33' SWly chx Tie to M.H. 174 }
CHX TO CONC. CB INLET.

T.B.M.

371.29 = 16' NEly

CHX Tie to E SPARROW
+ 2 KLUBER

2+50

79.61
361.50
C 18.11

(2+47 - Beg. 14' CON. BK - END)

SPARROW & ESMT (CONT)

FEDERAL Blvd:

EXIST canyon 12' 46
MAIN, Ely to plug-end

Ref: DWG'S 5916-D
5919-D

STA:

GRADE

CHK:

352.30 = 352.26

1+50

45.29
238.98
06.31

1+00

43.24
236.66
06.58

0+50

41.52
234.34
07.18

0+22.72

41.00
233.07
07.93

4.64%

ch + 5' for stubs 10' LT & (upgrade)

4+54.89 = Plug-end

16.04
364.90
C11.64

0-04.55 = M.H #67-B
Stub 10' LT + chx 20' LT
@ 90° to sewer.

40.44
231.81 ±
08.63

4+2.5

367.75
364.10
3.65

T.B.M

254.73 = w/ly 15' chx tie to
disc, on w.l. 60' to
city Fed. Blvd

STA:
 $\Delta = 38^{\circ} 07' 30''$ LT
 $3+65.85 = M.H. \#69-B$
 Stub $10.58'$ + chx's $16.58'$
 + $22.58'$ LT. ON SPLIT.
 (= 0+00 60'4")

GRADE
 54.92
 249.00
 C6.92

3+50

54.56
 248.26
 C6.30

3+00

52.74
 245.94
 C6.80

2+50

4.64%

50.14
 243.62
 C6.52

2+00

47.62
 241.30
 C6.32

$\Delta = 3^{\circ} 49' 44''$ RT
 $1+80 = M.H. \#68-B$
 chx's $10.01'$ + $9.99'$ LT
 ON SPLIT

46.70
 240.37
 C6.33

STA:

GRADE:
 60.52
 253.71
 C6.81

6+00

2.06%

5+50

59.37
 252.68
 C6.69

$\Delta = 13^{\circ} 05' 30''$ RT

$5+26.83 = M.H. \#70-B$
 chx's $10.07'$ + $20.27'$ E
 ON SPLIT

59.07
 252.20
 C6.87

5+00

58.37
 251.67
 C6.70

4+50

1.99%

57.46
 250.67
 C6.79

4+00

56.03
 249.68
 C6.35

STA:

8+50

GRADE:

63.77
257.13
C 6.64

STA:

11+00

GRADE

66.03
259.57
C 6.46

8+00

0.868

63.33
256.70
C 6.63

10+50

1.058

65.48
259.05
C 6.43

7+50

62.75
256.27
C 6.48

10+00

64.89
258.52
C 6.37

$\Delta = 8^{\circ} 18' 30''$ LT

7+06.85 = M.H. #71-B
CHK'S 10.03' & 20' LTE
ON SPLIT

62.41
255.90
C 6.51

$\Delta = 14^{\circ} 08' 49''$ RT

9+51.10 = M.H. #72-B
CHK'S 10.08' & 20' LTE
ON SPLIT

64.69
258.00
C 6.69

7+00

2.068

62.36
255.77
C 6.59

9+50

not-set

257.99

0.868

6+50

61.65
254.74
C 6.91

9+00

64.07
257.56
C 6.51

FED. Blvd. (CONT.)

T.B.M. (chd on Nly edge Pav) = 267.32
 @ 90° to F.C. Sew's

12+59.02

STA:

GRADE:

STA:

P.O.T.
 (12+74.57 Ahd) #
 Eq (12+74.78 BK) - M.H. 73-B
 chx's 10' + 20' L & R
 @ 90° For-tang

67.86
 261.40
 C 6.46

P.O.T.
 15+30.57 = M.H. #74-B
 chx's 10' + 20' L & R

69.85
 264.00
 C 5.85

15+00

69.58
 263.70
 C 5.88

12+59.02 = F.C.
 chx's 10' + 20' L & R

67.12
 261.24
 C 6.48

14+50

69.18
 263.19
 C 5.99

12+14.82 = mid-pt
 chx' 10' L & R curve

67.28
 260.78
 C 6.50

14+00

68.80
 262.68
 C 6.12

11+70.63 = B.C.
 chx's 10' + 20' L & R

66.87
 260.32
 C 6.55

13+50

68.36
 262.17
 C 6.19

11+50

66.60
 260.10
 C 6.50

13+00

67.96
 261.68
 C 6.30

1.05%

1.02%

FED. Blvd. (CONT.)

DWG: 5916-D (60th ST: & EGRET) 50
5917-D
5920-D (FED. - Blvd; S'ly)
5923-D T.B.M. = 272.48 =
ch & Drive S'ly side
Fulmar # 6009
GRADE

STA:

GRADE:

STA:

(42.08')

2+27.08

7.138

68.10
260.00
C 8.10

(42.08')

1+85 = M.H. # 80-B = 265.2 TP
(= 0+00 Fulmar)
Stubs 6' + 10' RT

65.84

65.84
257.00
C 8.84

60.64

Stubs 6' RT (Upgrade)

1+50

64.54
255.49
C 9.05

1+00

4.3242

62.32
253.32
C 9.00

0+50

59.45
251.16
C 8.29

0+00 = M.H. # 69-B

54.92
249.00
C 5.92

(= 3+65.85 FED. Blvd)
(See Pg 47)

T.B.M

254.73 = N'ly 15' ch x tie to
city disc, w'ly line
60th

16+59.57
= Plug-end
ch's 10' + 20' RT

71.03
265.00
C 6.03

16+50

70.96
264.94
C 6.02

16+00

0.788

70.45
264.55
C 5.90

15+50

70.03
264.16
C 5.87

60th ST. & EGRET (CONT.)

FED. Blvd, S'ly

T.B.M 358.46 = 50' Wly 2x2 tie to E 51
60th & EGRET

STA: GRADE
4+50 11.95
304.35
C 7.60

STA: GRADE
7+22 60.07
348.28
C 11.79

(41.89')

6+87

(34.89')

4+02.11 = M.H. # 87-B
stubs 6' + 10' RT 01.5
301.8 = TP mid
F 0.3
301.47
294.00
C 7.47

4+00 (not set) 293.51

$\Delta = 90^\circ$ LT.
6+52.11 = M.H. # 86-B
stubs 8.48' + 15' RT
ON SPLIT.
61.66
359.2 = TP
C 2.46
61.66
348.00
C 13.66

3+50 90.30
281.85
C 8.45

6+00

3+00 79.48
270.19
C 9.29

5+50

(30.89')

2+69.16 = M.H. # 80-A-B
(= 0+00 ESM'T) 73.1
stubs 6' + 10' RT. 272.10 = TP
C 1.0
73.10
263.00
C 10.10

5+00

35.18
325.95
C 9.23

23.10
315.15
C 7.95

0.40

21.60

23.32

60th St & EGRET (CONT)

FED. Blvd, S'ly

T.B.M. = 391.98 = 40' NELY 2x2 tie to 52
NELY CORNER WEARER + 60th

STA:

GRADE:

STA:

GRADE:

9+25

60.53
349.58
C10.75

(34.54)

$\Delta = 56^\circ 44' 10''$ RT

8+90.46 = M.H. #85-B

stub 6.82' + 15' RT ON SPLIT

60.25
348.95
C11.30

($\begin{matrix} 60.25 \\ 360.22 = TP \text{ m.H.} \\ C0.03 \end{matrix}$)

(28.46)

8+62

60.47
348.84
C11.63

(EGRET
Stub-end)

11+13.82 = M.H. #84-B

Stubs 6' + 10' RT

$\begin{matrix} 65.4 \\ 364.2 = TP \text{ m.H.} \\ C1.2 \end{matrix}$

65.41
353.00
C12.41

8+27

60.45
348.70
C11.75

10+75

62.76
352.30
C10.46

7+92

60.21
348.56
C11.65

10+25

61.48
351.39
C10.09

7+57

59.87
348.42
C11.45

9+75

60.63
350.49
C10.14

40.00

1.8132

FULMAR:

60°th, E'ly

STA:

GRADE

2+00

291.50
283.38
C 8.12

1+50

82.94
276.78
C 6.16

1+00

75.98
270.19
C 5.79

0+50

70.28
263.59
C 6.69

0+00 = M.H. # 80-B
(= 1+85 60°th)
See pg 50

65.84
257.00
C 8.84

T.B.M.

272.48 = ch \square Con. Drive
S'ly Side Fulmar # 6009

13.198
stubs 6' RT (up grade)

STA:

GRADE:
340.14
333.30
C 6.84

4+50

4+00

30.91
322.77
C 8.14

3+50

21.46
312.23
C 9.23

3+00

11.79
301.70
C 10.09

2+50

301.36
291.16
C 10.20

P.O.T.
2+35 = M.H. # 80-B
stubs 6' + 10' RT

98.33
288.00
C 10.33

98.3
297.5 = TP M.H.
C 0.8

21.0732

REF: DWG: 5916-D FULMAR (60th Ely)

5917-D
5921-D

CONT.

T.B.M. 387.07 =

20' 2x2 tie, Ely, to (54)
Prop. BC STA (ST) 720 LT.
Fulmar

STA:

GRADE

STA:

GRADE:

$\Delta = 1^{\circ} 41' 18''$ RT
6+35 = M.H. # 90-B
stubs 6' x 10' RT
on split

70.0
372.0 = TP
F 2.0

69.99
365.80
C 4.19

8+50

(8+48.4) Beg. Con. - BK. Fill

404.26
387.97
C 16.29

8+00

9.09

96.06
383.42
C 12.64

6+00

64.81
359.91
C 4.90

$\Delta = 31^{\circ} 28' 31''$ LT.

7+84.41 = M.H. # 91-B
stubs 6.24' x 10' RT
on split

93.3
392.6 = TP
C 0.7

93.30
382.00
C 11.30

5+50

57.53
351.48
C 6.05

7+50

89.97
378.27
C 11.70

5+00

49.00
343.06
C 5.94

7+00

10.84

81.00
372.84
C 8.16

$\Delta = 28^{\circ} 38' 45''$ RT
4+81.76 = M.H. # 89-B
stubs 6.36' x 10' RT
on split

46.1
345.6 = TP
C 0.5

46.08
340.00
C 6.08

6+50

72.32
367.42
C 4.90

FULMAR (CONT.)

T.B.M 430.42: Chd Cong. L.D.G
Stairs @ #6150 Fulmar

ESMNT: M.H #80-A.B (STA 2469.16) 55
60th ST.) to M.H #83-A.B WEAVER

STA:

GRADE

$\Delta = 12^\circ 40' 41''$ RT

1+23.40 = M.H #81-B

Stubs 6.04' + 12' LT.
ON SPLIT

71.41
264.00
C 7.41

10+33.08 = Plug and

427.56
406.00
C 21.56

10+00

25.76
402.56
C 23.20

0+82.26

69.66
263.67
C 5.99

9+50

418.13
397.36
C 20.77

0+41.13

70.40
263.33
C 7.07

$\Delta = 47^\circ 40' 12''$ RT

9+27.41 = M.H #91-A-B

Stubs set 6.56' + 10' RT.
ON SPLIT

15.5
415.0 = TP
C 0.5

415.49
375.00
C 20.49

(3 1/2)
0+00 = M.H #80-A-B
(= STA: 2469.16 60th)
See pg 51

73.10
263.00
C 10.10

9+00

412.29
392.51
C 19.78

T.B.M

272.48 = Chd Cong. Dr. S4y
Side Fulmar @ #6009

10.407%
Stubs 6' RTE (upgrade)

0.81%
Stubs 6' LT (upgrade)

9.09%

E'SMT (MH 80-AB 60' to
WEAVER) CONT.

STA:	GRADE:
3+50	89.12 280.14 C8.98
A = 24° 28' 17" RT	
3+22.26 = M.H. #82-B Stubs 6.14' + 12' LT. ON SPLIT	87.10 277.50 C9.60
3+00	85.55 275.99 C9.56
2+50	82.52 272.59 C9.93
2+00	77.53 269.20 C8.33
1+50	73.10 265.81 C7.29

6.789 8

STA:	GRADE:
M.H. 83-B = 5+70.67 Ahd Note: EQ = 5+65.05 BK	
Δ = 58° 24' 20" LT. (Plug to 5' 4')	13.69 300.61 C13.08
5+70.67 = M.H. #83-B Stubs 6.87' + 15' LT. ON SPLIT	
5+50	311.42 299.17 C12.25
5+00	304.35 294.41 C9.94
4+50	98.91 289.65 C9.26
4+00	93.86 284.89 C8.97

9.518
~~9.527~~ 8

ESMT: M.H. #80-A-B 60' to
to WEAVER (CONT.)

STA:

GRADE

7428.62 = M.H. #83-A-B

stubs 8.48' + 15' LT ON SPLIT
(N.W. 1/4 quad)

67.99

367.50 = TP M.H.

C 0.49

37.608

7+00

(6+75.67 = E CONC. CUT-OFF WALL)

(6+40.67 = E CONC. CUT-OFF WALL)

6+50

(6+05.67 = E CONC. CUT-OFF WALL)

6+00

67.99

360.00

C 7.99

61.71

349.25

C 12.96

41.24

330.45

C 10.79

323.32

311.65

C 11.67

WEAVER ST. (M.H. #83-A-B 7428.62)
57
(ESMT, 45' S'ly + 60' N'ly)

0+60 = N'ly plug-end

70.43
364.40
C 6.03

0+30

69.03
362.20
C 6.83

0+00 = M.H. 83-A-B
(See opp. pg.)

67.99
360.00
C 7.99

0-45 = S'ly plug-end

65.98
360.18
C 5.80

7332

STUBS 6'-2" (N'ly)

408

1-4-61

BURIAN: (60th, Ely to plug-end)

REF: DWG: 6329-D
6349-D

58

STA:	GRADE
3+00	27.60 320.86 C 6.74
2+50	26.32 318.19 C 8.13
2+00	24.71 315.51 C 9.20
1+50	22.40 312.83 C 9.57
1+00	19.43 310.15 C 9.28
0+50	15.44 307.48 C 7.96
(0+00 = M.H. #28, E 60th) See Pg 59	304.80
T.B.M	312.10 = 45' wly 2x2 R.P. to E 60th + BURIAN

5.355²
Stubs 5' RTE upgrade

STA:	GRADE
4+65.64 = plug-end	31.95 323.00 C 8.95
4+50	31.06 322.84 C 8.22
4+00	28.85 322.33 C 6.52
3+50	27.96 321.81 C 6.15
3+10 = M.H. #29 Stubs 5.11' + 10' RTE (on split)	27.70 327.40 = TP. C 0.3
	27.70 321.40 = F.L. C 6.30

1.030

$\Delta = 23^{\circ} 48' 34''$

1-4-61 ^{CANYON} 60th: (ESMT M.H. #7, sly to) Plug-end

STA: GRADE:
2+00 97.47
289.65
C 7.82

1+50 87.01
280.11
C 6.90

1+31.07 = M.H. #30 83.8
282.8 = TP
C 1.0 83.80
276.50
C 7.30

1+00 79.93
274.16
C 5.77

0+50 78.18
270.38
C 7.80

0+00 = M.H. #7 (ESMT Sew.) 81.11
266.10 (out) 266.60 (in)
C 15.01 C 14.51

S/ubs 5' x 10' RT at 90° 60th 81.11
281.40 = TP
Fo. 29

T.B.M. 283.10 = 60' W/ly 2x2 R.P.
to 60th + ESMT

19.09 %

7.553 %
S/ubs 5' x 10' RT

T.B.M. 312.10 = 45' W/ly 2x2 R.P.
to 60th + BURIAN 59

STA: P.O.T. GRADE:
A+21.07 = M.H. #27 35.12
329.30
35.1
C 5.82
335.3 = TP
Fo. 2

4+00 32.70
325.64
C 7.06

3+50 25.34
316.98
C 9.36

3+00 16.70
308.33
C 8.37

Δ = 116° 29' LT to BURIAN 12.68
304.80 (BURIAN)
C 7.88

2+76.71 = M.H. #28 12.68
313.1 = TP
Fo. 4 304.30 (60th)
C 8.38
S/ubs 5.00' x 10' RT
@ 90° to 60th

2+50 307.95
299.20
C 8.75

17.318 %

60th (mit #1, Sly-Cont.)

60

STA:

GRADE:

T.B.M

344.43 = NAIL Pole #546079-H
 (street sta) approx. STA = 7450± 60th
 Ely side ST

5+59.91 = plug-end

36.88
 330.60
 C6.28

5+50

37.33
 330.51
 C6.82

5+00

.936 00
 ↓

39.51
 330.04
 C9.47

4+50

37.59
 329.57
 C8.02

1-6-61

ESMT SEW: M.H #7 (E 60' th)

Ely

STAI

GRADE:

STAI

GRADE:

1+50

83.41
272.07
C 11.34

3+20

308.92
299.06
C 9.86

3+10

306.49
298.26
C 8.23

(to UPLAND)

 $\Delta = 56^{\circ} 40' 08''$ LT
= P.O.T. Ely LINE

1+28.26 = M.H #8

Stubs 5' 410' RT
at 90° E81.12
267.88 (out) 81.12
C 13.24 268.38 (in)
C 12.74

3+00

304.14
297.16
C 6.98

1+00

78.40
267.60
C 10.80

2+90 = B.V.C

301.70
295.77
C 5.93

0+50

73.10
267.10
C 6.00

2+50

93.65
289.00
C 4.650+00 = M.H #7
(E 60' th)
See pg 5981.11
266.60
C 14.51

2+00

87.02
280.54
C 6.48

T.B.M

283.10 = 60' W'ly 2x2
R.P. ESMT + E 60' th

16.936%

ESMT:
M.H #7 (E 60'4", E 4") Cont.

STA:	grade:
5+50.24 = NWly Plug-end (5+39.24 = Beg Cong-enc.)	303.58 301.69 C 1.89
5+00	06.57 301.49 C 5.08
4+50	309.56 301.29 C 8.27
4+00	313.36 301.09 C 12.27
(NWly Plug-end A = 63° 30' LT	
3+76.89 = M.H #31 stubs	315.29 300.50 (out) C 14.79
	315.29 301.00 (in) C 14.29
3+50	314.18 299.96 C 14.22
3+30 = E.V.C	310.89 299.56 C 11.33

0.40
Stubs 5' RT

2.00
Stubs 5' RT

ESMT: M.H #31, S'ly to plug-end 62
(CONT.)

STA:	grade:
T.B.M	296.77 = 60' 2x2 NWly R.P. to E upland + E ESMT
1+26.62 = S'ly Plug-end	314.84 309.86 C 4.98
1+00	317.25 308.00 9.25
0+50	317.25 304.50 C 12.75
0+00 = M.H #31 (see opp. pg.)	301.00 (in)

0.60
7.00
Stubs 5' RT

ESMT: M.H #8, N'ly to

UPLAND, Dipper 460' 1/2 etc.

1-6-61

STA:

GRADE

2+50

91.14
281.56
C9.58

2+00

84.69
278.93
C5.76

1+50

5.27 80

83.25
276.29
C6.96

1+00

82.01
273.65
C8.36

0+50

80.56
271.02
C9.54

0+00 = M.H #8
= 1428.26 ESMT, E'ly
(See pg 61)

T.B.M.

283.10 (see pg 61)

STA:

$\Delta = 14^{\circ} 42' 03''$ LT
 $\Delta = 73^{\circ} 42' 45''$ RT #
5+54.78 = M.H 10
Stubs SET 7.44' 415' RT
ON SPLIT (SE'ly quad)

GRADE

99.95
292.50 (out) 293.00 (in)
C7.45 C6.95

5+00

98.70
290.80
C7.90

4+50

97.24
289.25
C7.99

4+00

94.93
287.70
C7.23

3+50

291.11
286.15
C4.96

$\Delta = 17^{\circ} 02' 43''$ LT

2+96.45 = M.H #9
E UPLAND
Stubs 5.06' + 10' RT
ON SPLIT
(SE'ly quad)

94.16
284.00 (out) 284.50 (in)
C10.16 C9.66

94.16
292.60 = TP
F1.44

3.097 80
Stubs 6' RT

ESMT: CONT. (m.H #8 Nly to m.H #11
Dipper + 60' th)

ESMT. (CONT.) m.H #10, Ely to m.H #33, etc 64

STA: GRADE
T.B.M. 325.40 = wly 40' x 2 R.P
to E Dipper + 60' th

STA: GRADE
2+00 15.82
308.40
C7.42

8+02.83 = m.H #11
E 60' th + Dipper
(= 0+00 Nly Tooley)
(= 0+00 Ely Dipper)

20.72 20.72
308.00 (out) 308.50 (in)
C12.72 C12.22

20.72
320.40 = TP
C0.32

7+50

311.50
304.81
C6.69

1+50

16.42
305.49
C10.93

7+00

307.27
301.77
C5.50

1+00

311.58
301.32
C10.26

6+50

305.01
298.75
C6.26

0+50

303.28
297.16
C6.12

6+00

302.26
295.73
C6.53

0+00 = m.H #10
(= 5+54.78 ESMT.
see pg 63)

293.00 (in)

2.508
↓
Studs 6' LT

8.3258
↓

6.0478

Studs 6' RT

A = 90° LT, to Nly Plug end

1469.98 = m.H #33
Stubs set 8.48 + 15' RT
on split (SMLY Quad)

17.31 17.31
307.15 (out) 307.65 (in)
C10.16 C9.66

ESMT: CONT.

{ M.H #10, E'ly, to M.H #33, etc
ESMT }

0+54.45 = S'ly Plug-end

19.65
315.00
C4.65

0+00 = M.H #33
See Pg 64

13.50 2
Sub 6.27

307.65 (IN)

↑ (M.H #33, to S'ly

2+83.88 = ^{N'ly} Plug-end

16.83
310.50
C6.33

2+50

2.50 2
Sub 5.67

16.44
309.65
C6.79

1-6-61

60' H ST. M.H #11 (E Dipper)

N'ly to M.H #13 (E Tooley)

STA:

GRADE:

T.B.M.303.89 = 50' N'ly 2x2 R.P.
to E 60' H + Tooley

P.O.T.

2+48.43 = M.H #12

36.73
325.00
C11.73

T.B.M.

367.83 = NAIL Pole
SEly Corn,
60' H + Tooley36.73
337.47 = TP
F0.74

2+00

32.04
321.79
C102.5

1+50

28.20
318.46
C9.74 $\Delta = 75^\circ 13.5' RT$ 4+57.25 = M.H #13
Stubs 6.31 + 10' RT
on split
(SEly quad)68.24
355.00 (out) 355.50 (in)
C13.24 C12.746.6428
STUBS 5' RT

1+00

25.02
315.14
C9.88

14.36600

68.24
369.02 = TP
F0.78

4+50 (not set)

353.95

0+50

22.43
311.82
C10.61

4+00

59.30
346.77
C12.53

(3+65.15 = end Con. - encase)

0+00 = M.H #11
(= 8+02.83 ESMT)
See pg. 6420.72
308.50 (in)
C12.22

3+50

50.77
339.59
C11.18

(3+45.15 = Beg Con. - encase)

3+00

43.30
332.41
C10.89T.B.M.325.40 = 40' W'ly 2x2 R.P.
to E 60' H + Dipper

66

1-10-61

TOOLEY ST: M.H #13 (E 604h)
ELY to plug-end

67

STA:

GRADE

STA:

GRADE

2+50

73.57
365.20
C 8.37

4+97.63 = M.H #15

96.27
388.00 = F.L
C 8.2796.27
395.76 = TP
C 0.57

2+00

72.30
363.26
C 9.04

4+50

88.56
381.97
C 6.59

1+50

71.10
361.32
C 9.783.8838
5' RT
stubs

1+00

69.99
359.38
C 10.61

4+00

82.18
375.64
C 6.54

0+50

69.21
357.44
C 11.77

P.O.T.

3+47.63 = M.H #14

78.23
369.00 = F.L
C 9.2378.23
377.40 = TP
C 0.830+00 = M.H #13
(E 604h)
(See pg. 66)68.24
355.50 (IN)
C 12.74

3+00

75.73
367.15
C 8.58T.B.M383.89 = 2x2 50' Nly R.P.
to E 604h + Tooley

Tooley (Cont.)

STA:

GRADE

T.B.M.

391.98 = 40' ELY 2x2 R.P.
to NE CORN. Tooley &
WEAYER

5+91.41 = Plug-end

413.39
405.30
C 8.09

5+50

244x81
184476
↓

405.10
397.66
C 7.44

1-9-61
Ref: 6347-D

DIPPER: M.H. #11 (E 60th)
ELY to M.H. #17 (Weaver)
grade:

STA:

P.O.T
2+00 = M.H. #34

21.61
321.20 = TP
C 0.41

21.61
314.00 = F.L
C 7.61

1+50

19.42
312.62
C 6.80

1+00

2.75
STUBS 5' RT

319.19
311.25
C 7.94

0+50

20.55
309.87
C 10.68

0+00 = M.H. #11
(E 60th)
See pg. 64

320.72
308.50 (in)
C 12.22

T.B.M.

325.40 = 40' WLY 2x2
R.P. to E 60th + Dipper

Chk. T.B.M. 340.51 = 100' NWLY Chx R.P. 69
to WLY Prop. B.C. Mon
WEAVER

STA:

Grade:

3+75.16 = M.H. #17
Stubs 6.75' + 12' RT
on split.
(SWLY Quad)

41.56 41.56
329.20 (out) 329.70 (in)
C 12.36 C 11.86

41.56
343.9 = TP m.H.
F 234

3+60 E.V.C

39.79
326.79
C 13.00

3+50

38.18
325.48
C 12.70

3+40 = B.V.C

36.81
324.45
C 12.36

(3+37.16 = Beg Con-encase)

3+00

31.02
321.47
C 9.55

2+50

25.72
317.73
C 7.99

7.97

1-9-61 UPLAND: M.H. #9 (E UPLAND + E ESMIT)

Ely to Plug-end

STA:

2+19 = M.H. #32

13.53
312.0 = T.P. M.H.
C1.53

grade:

313.53
300.70
C1283

2+00

310.02
299.28
C1074

1+50

7.39%
5x6.5' RT

302.03
295.58
C645

1+00

97.21
291.89
C532

0+50

94.89
288.19
C670

0+00 = M.H. #9
(= 2+96.45 ESMIT)
(see pg. 63)

94.16
284.50 (IN)
C9.66

T.B.M.

296.77 = 60' Nly 2x2 R.P.
to E ESMIT & UPLAND

70

STA:

T.B.M.

grade

338.92 = Chd. S Ely Corner

CONC-LOG house @ NW 1/4
WEAVER + UPLAND

3+42.15 = Plug-end

332.76
325.08
C7.68

3+00

326.12
316.73
C9.39

2+50

318.37
306.84
C11.53

19.80%

1-10-61

WEAVER: M.H.#17 (E DIPPER)

S'ly to M.H.#20

STA:

0+45.67

grade:

46.58
341.40
C5.18

0+35.67

45.55
339.84
C5.71

0+25.67

(Beg conc-encase)

RT
5
Stubs44.19
337.66
C6.53

0+15.67

42.80
334.86
C7.94

0+05.67 = BVC (NOT SET)

331.15

0+00 = M.H.#17

(E DIPPER)
(See pg 69)41.56
329.20 (out)
C1236

T.B.M.

340.51 = 100 N.W'ly ch x R.P.
to W'ly Prop. BC WEAVER

STA:

2+00

 $\Delta = 5^{\circ} 32' 15''$ RT
1+86.54 = M.H.#18
Stubs 5.01' + 10' RT
ON SPIT

1+50

1+00

0+65.67 = E.V.C.

0+55.67 =

= end CON-ENCASE.

110330

3.1300

71

grade:

53.39
346.54
C6.8353.21
346.40 = F.L. 53.2
C6.81 352.5 = TP
C6.752.67
345.26
C7.4150.79
343.70
C7.0948.51
342.64
C5.8747.65
342.33
C5.32

WEAVER (E Dippers) S'ly - CONT.

T.B.M.

338.92

old SEly Corner
CONC-LDG. HOUSE AT NWly
UPLAND & WEAVER
grade

72

STA:

grade:

STA:

grade

5+00

55.51
349.64
C5.87

7+00

56.66
352.44
C4.22

4+50

55.06
349.12
C5.94

6+50

55.63
351.70
C3.93

4+00

54.49
348.61
C5.88

6+00

55.69
350.96
C4.73

3+50

53.95
348.10
C5.85

1.488

10338

3+00

53.55
347.58
C5.97

5+50

56.03
350.22
C5.81

2+50

53.12
347.06
C6.66

A= 27° 13' 13" RT

5+34.98 = M.H #19

stubs 5.14' & 10' RT
on split

56.13
350.00 = FL
C6.13

56.13
356.1 = TP
C0.03

STA:

grade:

STA:

grade

8+45.53=M.H #20
 stubs 5'4 10' RT

59.83
 360.55=TP
 F. 72

59.83
 354.60=F.L
 C5.23

8+00

02

48

1

59.00
 353.92
 C5.08

7+50

1

58.29
 353.18
 C5.11

1-11-61

WEAVER: M.H #17 (E)

T.B.M.

391.98 = 40' Ely 2x2 R.R. 74
to NE Corn, WEAVER &
Tooley

STA:

Dipper) Nly to plug-end
grade:

STA:

grade:

2+80.57 = plug-end

63.47
353.50 = F.L
C 9.91

1+50

45.93
334.08
C 11.85

2+50

58.55
347.46
C 11.09

1+00

41.52
332.62
C 8.90

2+00

51.58
337.57
C 14.01

0+50

40.81
331.16
C 9.65

$\Delta = 36^{\circ} 53' 26''$ RT

1+88.03 = M.H #16
Stubs 5.27 + 10' RT.

50.27
350.05 = TP.M.H
C 0.22
50.27
335.20 = F.L
C 15.07

0+00 = M.H #17
(E Dipper)
(See pg. 69)

41.56
329.70 (in)
C 11.86

T.B.M.

340.51 = 100 NWly Ckx R.R.
to Wly Prop. BC. WEAVER

2.925
Stubs 5' RT

19.79

1-25-61

REPUBLIC: M.H. # 21 -

REF: 6329-31-D
6350-D

75

STA:

WEAVER: to D-end.

STA:

grade:

1+50

grade:
65.62
354.98
110.64

4+00

81.64
373.15
C 8.49

(1+44.4 = end CONC-ENCASE)

(1+24.4 = Beg CONC-ENCASE)

3+50

79.33
369.54
C 9.79

1+00

60.63
351.32
C 9.31

3+00

75.94
365.93
C 10.01

0+50

55.55
347.66
C 7.89

A = 45° 51.5' LT
2+59.45 = M.H. # 35

71.78
363.00 = F.L.
C 8.78

stubs 6.50' + 12' RT }
ON SPLIT } 71.78
373.30 TP M.H.
F.152

7.323 &
Stubs 6' RT &
up grade

0+00 = M.H. # 21

(EXIST. @
+ this Date)

(E WEAVER)
See Pg 13

353.60
344.00 (IN)
C 9.60

2+50

71.39
362.23
C 9.16

T.B.M.

357.24 = S'ly 18.54' 2x2'
R.P. to S'ly Pmp. E.C
Republic
STA 29+72.60 (STREET
STA:)

2+00

68.62
358.64
C 9.98

Republic - CONT.

T.B.M

378.88 = NAIL EUC. TREE
= 28.51' slytie to E.M.H #36 76

STA:	grade:
6+50	90.70 379.70 C11.00
6+00	88.60 379.33 C9.27
5+50	87.20 378.97 C8.23
5+00	85.50 378.60 C6.90
4+72.63 = M.H #36 Stubs 6.54' + 12' RT on split	85.2 } 384.30 = TP } C0.9 M.H } 85.21 } 378.40 = FL } C6.81 }
4+50	383.80 376.77 C7.03

0.7312
1.1958
↓

1.2248
↓

STA:	grade:
9+00	98.65 384.61 C14.04
8+50	97.51 383.50 C14.01
8+00	96.24 382.40 C13.84
7+50	94.95 381.29 C13.66
7+00	93.69 380.19 C13.50
6+91.53 = M.H #37 Stubs 6.55' + 12' RT on split	93.21 } 392.52 = TP } C0.69 M.H } 93.21 } 380.00 = FL } C13.21 }

2.218
↓

Republic - CONT.

T.B.M.

418.42 = 25' wly chx = 77

R.P. to wly Prop B.C. @ Street

STA: 18+7427 Republic

STA: 11+50
 grade:
 413.82
 400.00
 C13.82

STA: 14+00
 grade:
 28.85
 414.16
 C14.69

11+00
 410.20
 396.77
 C13.43

13+50
 25.56
 411.39
 C14.17

10+50
 405.65
 393.54
 C12.11

13+00
 22.52
 408.61
 C13.91

10+00
 402.69
 390.31
 C12.38

12+50
 19.92
 405.84
 C14.08

9+50
 400.53
 387.08
 C13.45

12+00
 16.88
 403.06
 C13.82

$\Delta = 7^\circ 01.6' \text{ LT}$
 99.37
 398.77 = TP
 385.00 = F.L.
 9+17.80 = M.H. #38
 C0.60 M.H. C14.37
 Stubs 6.01' + 12' RT
 on split

$\Delta = 33^\circ 22' \text{ RT}$
 11+81 = M.H. #39
 15.85
 416.00 = TP
 402.00 F.L.
 Stubs 6.26' + 12' RT
 F0.15 M.H. C13.85
 on split

6.46 00

5.55-00

REPUBLIC - CONT.

STA: (in 6 pts. = 30.73 arcs)
 = Reg. Curve Sewer
 TOT. $\Delta = 69^\circ 43' 42''$ $\Sigma R. Sew = 147$
 $15+89.65 = M.H \#41$
 stubs 6' + 12' RT.
 @ 90°

grade:
 37.06 37.06
 $436.35 = TP$ $423.00 = F.L.$
 Co. 71 M.H. $C14.06$

15+50

35.73
 421.18
 $C14.55$

15+00

33.42
 418.88
 $C14.54$

14+50

31.11
 416.59
 $C14.52$

P.O.T

$17+15.21 = M.H \#40$
 stubs 6' + 12' RT
 @ 90°

29.54 29.54
 $429.55 = TP$ $415.00 = F.L.$
 grade M.H. $C14.54$

T.O.M

$445.85 =$ NAIL Pole $= P371118$ **78**
 N'y side Republic @ ST. STA:
 $12+55' \pm$

STA: grade
 Note: { IN CASE OFFSET STUB Knocked-out by Daley
 Chord From offset stub $17+43.30$ to offset stub
 @ $17+74.02 = 29.55'$
 + dist. out from CB Fe. at N'y (LT) CB and = $20.3'$

$17+74.02 =$ Plug-end 40.72
 $427.00 = F.L.$
 441.20 $C13.72$
 427.00
 $C14.20$

Kod
 by Cont.
 (Reset)

$17+43.30$
 $Def: = 29^\circ 03' 12''$
 $ch = 30.64'$

39.76
 426.33
 $C13.43$

$17+12.57$
 $Def: = 23^\circ 14' 34''$
 $ch = 30.64'$

38.97
 425.66
 $C13.31$

$16+81.84$
 $Def: = 17^\circ 25' 55''$
 $ch = 30.64'$

38.61
 425.00
 $C13.61$

$16+51.11$
 $def = 11^\circ 37' 17''$
 $ch = 30.64'$

38.19
 424.33
 $C13.86$

$16+20.38$
 $def = 5^\circ 59' 30''$
 $ch = 30.64'$

37.66
 423.67
 $C13.99$

4.5798

2.1746

STA:

(in

= Beg

Tot. Δ = 69

15+

stubs

@

15+

15+

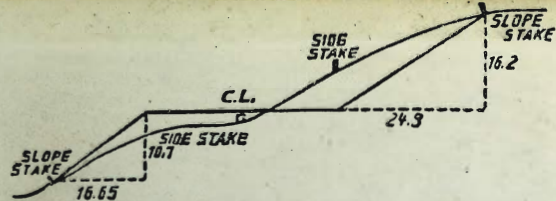
14+5

P.

14+1

stubs

@ 9



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.
 SLOPE 1½ TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

1434
 43
 4302
 5736
 1662

THE NATIONAL BLANK BOOK COMPANY
 HOLYOKE MASSACHUSETTS
 NEW YORK CHICAGO BOSTON SAN FRANCISCO